
STATE OF NORTH CAROLINA, DEPARTMENT OF ADMINISTRATION
DIVISION OF PURCHASE AND CONTRACT
AGENCY SPECIFIC TERM CONTRACT

Contract Title:	Subsurface Exploration Drill
Bid (Contract) Number:	201400398
Commodity Code:	760-20
Effective Dates:	April 24, 2014 through April 23, 2017-Non-Renewable
P&C Administrator:	Bahaa Jizi
Phone:	919-807-4520
E-Mail:	Bahaa.jizi@doa.nc.gov
Last Updated:	

Items on Contract

Product Description	Price/UOM	Contractor
SEE ATTACHED PRICING SCHEDULE		

Contractor

Contractor Information	
Company	Central Mine Equipment Co.
Address	4215 Rider Trail North
City, State, Zip	Earth City, MO 63045
URL	
Contractor Contact	
Name	David Bloodworth
Phone	800-325-8827 (314)-291-7700
E-Mail	info@cmeco.com

Taxes

Prices shown do not include North Carolina sales or use taxes.

DELIVERY:

The Contractor will be required to pick up the chassis provided by NCDOT at the Fleet & Material Management equipment yard located in Raleigh, NC and return the completed unit to that same location after installation of the drill.

Transportation Charges

All goods shall be delivered FOB DESTINATION. Prices herein include shipping.

Warranty

The contractor guarantees items to be free from any and all defects in material, packaging, and workmanship and agrees to replace and/or repair defective items promptly at no charge to the State, for the period as stated in the mfg. standard warranty from date of acceptance. This statement is not intended to limit any additional coverage which may normally be associated with a product.

FURNISH AND DELIVER:

A combination auger, core, rotary type boring and subsurface exploration drilling machine in accordance with the attached specifications & questionnaire. This bid includes installation of the drill unit on a chassis provided by NCDOT. Units shall be furnished with the published standard equipment whether specified or not. For reference purposes only, this specification is based on a CME 45C drill, manufactured by Central Mine Equipment Company.

The successful bidder will be required to pick up the chassis provided by NCDOT at the Fleet & Material Management equipment yard located in Raleigh, NC and return the completed unit to that same location after installation of the drill.

The unit offered shall be new, unused and a current model under standard production by the manufacturer.

SPECIAL NOTE:

This bid is to establish a 3 year contract for the items below. No quantities are guaranteed. Once the contract has been awarded, NCDOT will determine quantities and issue purchase order(s) as needed throughout the contract period.

ITEM	QTY.	UOM	DESCRIPTION	UNIT COST	TOTAL EXTENDED COST
1.	1	ea	SUBSURFACE EXPLORATION DRILL	\$147,803	\$147,803

TOTAL ALL ITEMS \$147,803.00

NCDOT Chassis

For bidder information purposes, the chassis NCDOT intends to furnish for the installation of the drill covered in this bid spec will be as follows:

CHASSIS: New, current year model FORD TRUCK - Model F-550 Super Duty

19,500 pound GVW
 165" WB
 84" CA
 4WD
 7,000 pound front drive axle, with manual locking hubs
 7,000 pound front springs
 13,660 pound rear axle, 4.88 ratio, with limited slip
 13,660 pound rear springs, including auxiliary springs
 6.7L diesel engine, 400 HP, 725 ft-lbs torque
 6-speed automatic transmission
 2-speed transfer case
 LT225/70SR19.5G tires
 All-terrain tread
 19.5 x 6 disc wheels
 Hydraulic power brake system
 40 gallon fuel tank

Engine block heater
17.8 SM frame, 36,000 psi
Rear axle spacers (86S option)
130 amp alternator
2 - 750CCA batteries
40-20-40 seat with console
Front and rear shock absorbers

1711B_14
February 27, 2014**Section 1: GENERAL DRILL SPECIFICATIONS**

This specification is for the purchase of a combination auger, core, rotary type boring and subsurface exploration drilling machine. Units furnished under this contract shall be installed by the successful bidder on chassis' supplied by NCDOT. For reference purposes only, this specification is based on a CME 45C drill, manufactured by Central Mine Equipment Company.

The unit offered shall be new, unused and a current model under standard production by the manufacturer.

Requested**Offered**

Drill Manufacturer

Central Mine Equipment Company

Drill Model

CME-45C

- | | |
|--|---|
| a. Unit(s) to be installed and made ready for operation by the successful bidder on chassis provided by NCDOT. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| b. The successful bidder will be required to pick up the chassis provided by NCDOT at the Fleet & Material Management equipment yard located in Raleigh, NC and return the completed unit to that same location after installation of the drill. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| c. The drill shall be a self-contained unit having a single engine power source. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| d. The power shall be appropriately directed to the hydraulic system and mechanically-driven drill head. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| e. A hydraulically actuated folding upright drill frame with twin hydraulic feed cylinders shall be supplied. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| f. The drill unit shall be thoroughly field tested and ready for immediate and continuous operation at time of delivery. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| g. The drill shall have been in production for at least two years. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

Section 2: ROTARY DRIVE

- | | |
|---|---|
| a. The drill transmission shall have at least four speeds forward and one speed reverse. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| b. The transmission shall be mounted stationary on the drill main base frame with a heavy-duty clutch immediately adjacent to the transmission power input. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| c. The maximum drill spindle torque shall exceed 3,390 foot-pounds in first gear. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| d. Rotational speeds of the drill spindle shall range from at least 100 RPM in first gear to more than 640 RPM in fourth gear at 2,300 engine RPM. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

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|----|--|-----|-------------------------------------|----|--------------------------|
| e. | The output of the transmission shall power a single speed right angle drive. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| f. | The right angle drive output shall turn a drive shaft connected to the rotary box. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| g. | The rotary box shall be stationary with respect to the drive head travel. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| h. | The rotary box shall be grease packed. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| i. | The minimum rotary box chain size shall be double 80 series. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| j. | The rotary box shall turn a rotary drive bar that has a square cross section of at least 1.75 inches a side and shall be made of heat-treated alloy steel. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| k. | The drill shall be equipped with a heavy-duty auger drive universal joint and 1-5/8 inch hexagon drive socket. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| l. | Provision against shock overload to the rotary drive shall be accomplished through an easily adjustable torque-limiting clutch. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |

Section 3: VERTICAL DRIVE

- | | | | | | |
|----|--|-----|-------------------------------------|----|--------------------------|
| a. | The vertical drive shall consist of two double-acting hydraulic feed cylinders with an overall stroke or travel of at least 68 inches. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| b. | The feed cylinders shall have a point of thrust centered upon the axis of the drill spindle. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| c. | The feed slide bushings shall be split for ease of removal and replacement. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| d. | The vertical drive shall have a maximum downward thrust of not less than 13,650 pounds and an upward or retract force of not less than 19,600 pounds. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| e. | The feed cylinders shall have a minimum piston rod diameter of 1.375 inches to withstand compressive forces when retracting augers from the ground without rotation. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| f. | Hydraulic gauges shall be provided on the control panel at the left rear of the drill to indicate in pounds per square inch the hydraulic feed pressure and system pressure. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| g. | Hydraulic controls shall be furnished for varying the feed rate and down pressure. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| h. | The maximum rate of feed shall not be less than 79 feet per minute down and 55 feet per minute up. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| i. | Two feed levers shall be provided. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| j. | One feed lever shall be of the spring return type permitting standard rates of feed and retract. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| k. | The first feed lever shall not be affected by the dial control settings used with the second feed lever. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |

- l. The second feed lever shall have a detent position and be used for drilling when a controlled rate of feed is required. Yes ☒ No ☐
- m. Feed rate, once set, shall not be affected by changes in engine RPM nor by changes in formation resistance unless the adjusted down pressure setting is reached. Yes ☒ No ☐
- n. A feed rate control shall be furnished for changing the rate of feed. Yes ☒ No ☐
- o. A pressure control shall be furnished for changing the maximum bit pressure. Yes ☒ No ☐
- p. The feed rate and pressure controls shall be operated by rotary type valves located on the front of the control panel within easy reach of the operator. Yes ☒ No ☐

Section 4: DRILL POWER UNIT

- a. The power unit shall be a self-contained electric starting, air-cooled, heavy-duty 3-cylinder industrial type diesel engine, having not less than 197 cubic inch displacement and a minimum 57 gross intermittent horsepower. Yes ☒ No ☐
- b. The engine shall meet U.S. EPA Tier 4 interim (4i) emission certification. Yes ☒ No ☐
- c. The unit shall be equipped with a heavy-duty oil bath air cleaner, a governor and a replaceable full flow oil filter. Yes ☒ No ☐
- d. The unit shall have a 12-volt electric starting system consisting of a starter, alternator, battery and regulator. Yes ☒ No ☐
- e. The unit shall have a keyed ignition switch on the drill control panel and an electrically controlled engine throttle. Yes ☒ No ☐
- f. The power unit shall be equipped with a dry disc clutch not less than 13 inches in diameter and a transmission having not less than four speeds forward and one reverse. Yes ☒ No ☐
- g. When coupled with the drill unit, the engine shall have sufficient power to meet all requirements listed elsewhere in this specification. Yes ☒ No ☐
- h. Fuel for the drill shall come from the truck fuel tank. Yes ☒ No ☐

Section 5: UPRIGHT DRILL FRAME WITH PERMANENTLY COUPLED DRIVELINE HYDRAULIC SYSTEM:

- a. The upright drill frame shall be hydraulically actuated permitting 90-degree fold over for traveling. Yes ☒ No ☐
- b. The depth of the upright part of the base frame shall be at least 8 inches for rigidity. Yes ☒ No ☐
- c. Two 2.5 inch ID double-acting hydraulic cylinders that have a minimum of 1.375-inch diameter rods shall control the drill frame movement. Yes ☒ No ☐

- d. The direct-coupled mechanical drive train to the rotary shall not have to be disconnected when folding the upright drill frame over to a horizontal travel position. Yes ☒ No ☐
- e. The direct-coupled mechanical drive system shall incorporate the capability of drilling holes from vertical to 30 degrees from horizontal. Yes ☒ No ☐

Section 6: HYDRAULIC SYSTEM

- a. This system shall have a heavy-duty engine driven hydraulic pump run independently of the gear train with a capacity of not less than 24.9 GPM at 2,000 PSI. Yes ☒ No ☐
- b. The system shall be equipped with a full-flow replaceable element hydraulic oil filter in the low pressure return line. Yes ☒ No ☐
- c. A hydraulic oil cooler shall be furnished. Yes ☒ No ☐
- d. The hydraulic oil reservoir shall have adequate capacity and shall be equipped with level indicator sight eyes, a vented filler cap and a magnetic drain plug. Yes ☒ No ☐
- e. The hydraulic pump shall be driven from a point in the line of power transmission so that hydraulic power will be available whenever the engine is running. Yes ☒ No ☐

Section 7: DRILLER'S CONTROL PANEL

- a. All controls and gauges needed for the various drilling operations shall be placed in such a manner as to be easily accessible and convenient for the drill operator while permitting a view of the drilling operation at all times. Yes ☒ No ☐
- b. The driller's control panel shall be mounted on the left rear of the drill. Yes ☒ No ☐
- c. Keyed ignition switch and starter button. Yes ☒ No ☐
- d. Push-button emergency engine shut-off switch. Yes ☒ No ☐
- e. Electric engine throttle switch. Yes ☒ No ☐
- f. Transmission gear selector and lock-out clutch handle and auxiliary spindle brake set valve. Yes ☒ No ☐
- g. Gauges: Hour meter, tachometer, engine oil pressure, engine oil temperature and volt meter in a locking box. Yes ☒ No ☐
- h. Hydraulic gauges for systems pressure and pull-down pressure. Yes ☒ No ☐
- i. Feed rate, and feed pull-down pressure control. Yes ☒ No ☐
- j. Feed lever and detented feed levers. Yes ☒ No ☐
- k. Hydraulic controls for all standard and provided optional components. Yes ☒ No ☐
- l. The drill controls shall be arranged in groups and situated for convenience according to frequency of use. Yes ☒ No ☐

- m. For safety and convenience, the hydraulic levers shall have directional control that corresponds with cylinder movement. For example, moving the feed lever up shall extend the feed cylinders.

Yes ☒ No ☐

Section 8: SAFETY AND EMERGENCY SHUT-DOWN SYSTEM

- a. Push-button emergency shut-off switches shall be located on the control panel and on the right side of the main drill frame.
- b. Two emergency multidirectional wobble shut-off switches with extended levers shall be located near the bottom of and parallel to the feed cylinders.
- c. When any emergency shut-off switch is activated, a drive line brake is engaged to stop the spindle rotation in less than one revolution, the clutch is released and the engine is shut down.
- d. The system shall also include a lock-out type clutch handle that positively locks the clutch handle in the down or disengaged position and an auxiliary spindle brake set valve.
- e. A neutral start switch is to be included that only allows the engine to start when the clutch is disengaged.
- f. A mast-raising alarm shall be included to alert the drill crew to look for overhead obstructions.

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Section 9: MAST

- a. The mast shall be secured by bolts to the upright drill frame and shall be removable from the drill when not needed.
- b. With the mast in a vertical position, the sheaves shall be not less than 18 feet from the base of the drill main frame.
- c. The maximum line pull of the draw works shall be evenly distributed on four cross-braced tubular members with an adequate margin of safety.
- d. Pairs of 8 inch diameter sheaves shall be aligned with the rope or wire rope they carry.
- e. Two hydraulic cylinders shall be provided to raise and lower the upright drill frame and mast.

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Section 10: DRAW WORKS

- a. The draw works shall include two hydraulic hoists and a hydraulic wireline hoist.

Yes ☒ No ☐

10A. Hoist One

- a. The first hydraulic hoist shall have a maximum pulling capacity of not less than 3,200 pounds.

Yes ☒ No ☐

- b. Maximum line speed shall be not less than 100 feet per minute. Yes ☒ No ☐
- c. One hydraulic lever shall be furnished for controlling hoisting or lowering and rotation speed. Yes ☒ No ☐
- d. The hoist shall include approximately 60 feet of 3/8 inch diameter wire rope and a safety Shur-Lok hook. Yes ☒ No ☐

10B. Hoist Two

- a. The second hydraulic hoist shall have a maximum pulling capacity of not less than 1,800 pounds. Yes ☒ No ☐
- b. Maximum line speed shall be not less than 200 feet per minute. Yes ☒ No ☐
- c. One hydraulic lever shall be furnished for controlling hoisting or lowering and rotation speed. Yes ☒ No ☐
- d. The hoist shall include at least 60 feet of 3/8 inch diameter wire rope and a safety Shur-Lok hook. Yes ☒ No ☐

10C. Hydraulic Wireline Hoist

- a. The hydraulic wireline hoist shall have a maximum pulling capacity of not less than 1800 pounds. Yes ☒ No ☐
- b. Maximum line speed shall be not less than 200 feet per minute. Yes ☒ No ☐
- c. One hydraulic lever shall be furnished for controlling hoisting or lowering and rotation speed. Yes ☒ No ☐
- d. The hoist shall be capable of holding up to 900 feet of 3/16 inch diameter wireline cable. (cable not required) Yes ☒ No ☐

11. SLIDING BASE, IN-OUT

- a. A sliding base shall be furnished for moving the drill in and out so that the drill spindle can be positioned to facilitate alignment of augers and drill rods and to provide clearance from the hole for handling augers, casing and other down-hole tools. Yes ☒ No ☐
- b. With the slide base extended, the center of the auger drive shall be at least 15 inches from the rear of the truck to provide ample working room. Yes ☒ No ☐
- c. The in-out slide base shall have at least 15 inches of travel and shall be hydraulically operated. Yes ☒ No ☐
- d. The in-out slide base shall have a replaceable nylatron (or approved equal) wear plate between the metal slide surfaces. Yes ☒ No ☐

12. SLIDING BASE, SIDEWAYS

- a. A sliding base shall be furnished for moving the drill to either side so that the drill spindle can be positioned to facilitate alignment of augers and drill rods when starting or drilling a hole. Yes ☒ No ☐

- b. The sideways slide base shall have at least 8 inches of travel and be hydraulically operated.

Yes ☒ No ☐

- c. The sideways slide base shall have nylatron (or approved equal) wear plate between the metal slide surface.

Yes ☒ No ☐

13. MUD PUMP ASSEMBLY

- a. The mud or water pump shall be a progressive cavity type pump (3L6 or equal) and shall have an infinitely adjustable output of 0 to 36 gallons per minute and a maximum pressure of 225 PSI.

Yes ☒ No ☐

- b. Pump output shall not be affected by changes in engine RPM.

Yes ☒ No ☐

- c. Power for the mud pump shall be supplied by a hydraulic motor operated from the drill hydraulic system.

Yes ☒ No ☐

- d. The assembly shall include a pressure gauge, a 1-1/2 inch pressure port with sufficient 1-1/2 inch high pressure hose to connect to the control panel, service tee with 1 inch bypass at the operator's panel and a 2 inch suction port.

Yes ☒ No ☐

- e. Provisions shall be made for drainage of the mud pump and lines.

Yes ☒ No ☐

14. STANDPIPE WITH HOSE TO CONTROL PANEL

- a. A 1-1/2 inch diameter standpipe shall be mounted on the upright drill frame and connected by a 1-1/2 inch high pressure hose to the mud pump output at the control panel.

Yes ☒ No ☐

- b. A 1-1/2 inch high pressure hose with quick disconnect fittings shall connect the standpipe to a stabilized side feed water swivel.

Yes ☒ No ☐

15. HYDRAULIC HAMMER

- a. A hydraulic hammer system shall be furnished that will lift a 140 pound drive weight 30 inches and completely release the weight for a 30 inch free fall.

Yes ☒ No ☐

- b. No rope or cable shall be attached to the weight that might impede free fall.

Yes ☒ No ☐

- c. The system shall have a minimum rate of at least 50 blows per minute.

Yes ☒ No ☐

- d. The hammer shall be preset at the factory for a consistent weight fall height through the use of adjustable priority hydraulic control valves.

Yes ☒ No ☐

- e. Once the valves are set, the fall height of the hammer weight shall not be affected by engine throttle adjustments.

Yes ☒ No ☐

- f. The fall height shall have a tolerance of plus or minus 1/2 inch.

Yes ☒ No ☐

- g. A method for visual verification of the fall height of the weight while the hammer is in operation shall be provided.

Yes ☒ No ☐

- h. The hammer shall be mounted on one single-acting hydraulic cylinder

which is dedicated to the operation of the hammer device and shall be attached to the upright drill frame opposite of the control panel.

Yes ☒ No ☐

- i. The hammer device shall be hydraulically raised or lowered by this hydraulic cylinder through 60 inches of vertical travel.

Yes ☒ No ☐

- j. A 140 pound drive weight shall be furnished.

Yes ☒ No ☐

- k. A safety feature shall be furnished that will prevent the hammer from operating if the anvil is not in place.

Yes ☒ No ☐

16. ROD CLAMP AND BREAKOUT DEVICE

- a. A rod clamp that hydraulically holds drill rod or pipe shall be furnished.

Yes ☒ No ☐

- b. The device shall swing on and off the hole from a pivot point near the right rear leveling jack and shall have in and out adjustment.

Yes ☒ No ☐

- c. The rod clamp shall store flush with the rear of the platform and out of the way when drilling with auger tools.

Yes ☒ No ☐

- d. A hydraulic breakout wrench shall be furnished.

Yes ☒ No ☐

17. HYDRAULIC LEVELING JACKS

- a. Heavy-duty hydraulic leveling jacks shall be furnished that are individually operated from the control panel at the left rear of the drill.

Yes ☒ No ☐

- b. The jacks shall provide adequate leveling capability and shall be strong and rigid enough to easily support the total weight of the machine plus the loads generated when retracting drilling tools.

Yes ☒ No ☐

- c. Check valves shall be furnished in the hydraulic lines to prevent leakage or slippage of the jacks while the drill is set up on a site.

Yes ☒ No ☐

- d. The chrome-plated jack piston rods shall be completely enclosed to safeguard them from damage.

Yes ☒ No ☐

- e. Two jacks shall be mounted at the rear of the platform, one on each corner.

Yes ☒ No ☐

- f. The maximum cylinder travel shall not be less than 36 inches.

Yes ☒ No ☐

- g. The minimum outside diameter of the jack cylinders shall be 4.5 inches with a 4 inch bore and 2.5 inch diameter piston rod.

Yes ☒ No ☐

- h. One jack shall be mounted at the center front of the truck.

Yes ☒ No ☐

- i. The maximum cylinder travel shall not be less than 36 inches.

Yes ☒ No ☐

- j. The minimum outside diameter of the jack cylinders shall be 4.5 inches with a 4 inch bore and 2.5 inch diameter piston rod.

Yes ☒ No ☐

- k. A heavy-duty steel channel front bumper with tow shackles shall be

provided.

Yes ☒ No ☐**18. DRILL PLATFORM**

- | | |
|--|---|
| a. The drill platform shall be constructed from structural steel members and 12 gauge safety tread deck plate. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| b. A watertight tool box shall be provided on the passenger side below the platform deck ahead of the rear wheels. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| c. Drill rod and auger racks shall be furnished above the deck. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| d. LED running/clearance lights shall be provided. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| e. The platform width shall not exceed 96 inches. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| f. The platform shall be for an 84 inch CA truck. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| g. An underbody auger rack shall be furnished on the driver's side of the truck platform. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| h. A folding driller's step at the left rear corner of the platform shall be supplied. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| i. The drill platform shall be undercoated. | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

For information purposes, the chassis NCDOT intends to furnish for the installation of the drill covered in this bid spec will be as follows.

TRUCK: New, current year model FORD TRUCK - Model F-550 Super Duty (4 x 4) with 165" WB, 84" CA, 19,500 pound GVW, including the following:

7,000 pound front drive axle, with manual locking hubs
 7,000 pound front springs
 13,660 pound rear axle, 4.88 ratio, with limited slip
 13,660 pound rear springs, including auxiliary springs
 6.7L diesel engine, 400 HP, 725 ft-lbs torque
 6-speed automatic transmission
 2-speed transfer case
 LT225/70SR19.5G tires
 All-terrain tread
 19.5 x 6 disc wheels
 Hydraulic power brake system
 40 gallon fuel tank
 Engine block heater
 17.8 SM frame, 36,000 psi
 Rear axle spacers (86S option)

Front frame extension, CME installed
130 amp alternator
2 - 750CCA batteries
40-20-40 seat with console
Power steering
Front and rear shock absorbers